

### **REMARKS**

Applicant has carefully reviewed and considered the Office Action mailed on October 9, 2003, and the references cited therewith.

Claims 1 and 13 are amended, and no claims are cancelled or added; as a result, claims 1-22 remain pending in this application.

#### **§102 Rejection of the Claims**

Claims 1-2, 4, 10, 13-15, and 20 were rejected under 35 USC § 102(b) as being anticipated by McEwan (U.S. Patent No. 5,512,834).

Mc Ewan describes a system in which an RF generator produces 2MHz pulses modulated by a 2kHz square wave to produce a signal for object detection. The 2kHz square wave produced by homodyne 102 modulates the RF signal produced by the RF generator 104 in step generator 106. The RF signal produced by the RF generator 104 is taught to have a fixed single frequency "in the range of 1 MHz to several MHz (i.e.2 MHz in the particular example described hereafter)." (*see*, col. 10, ln. 65-67).

The present claims have been amended to more clearly recite that they do not produce a modulated narrow-frequency output signal as does McEwan, which fails to consider production of an ultrawideband RF signal, but instead produce an RF ultrawideband output signal as is described throughout the specification. Attention is specifically directed to p. 6, ln 24-29 (last paragraph) of the specification, which describes one typical ultrawideband configuration consistent with the present invention.

Because the claims as amended are more clearly distinct from the McEwan reference, and recite elements and function not found in McEwan, the claims are believed to be patentably distinct from McEwan. Reexamination and allowance of these pending claims is therefore respectfully requested.

#### **Allowable Subject Matter**

Claims 3, 5-9, 11-12, 16-19 and 21-22 were objected to as being dependent upon a rejected base claim, but were indicated to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

These claims are not presently amended, as they depend from independent claims believed to be in condition for allowance for the reasons stated above. Reexamination and allowance of these pending claims is therefore further respectfully requested.

Conclusion

Applicant respectfully submits that the claims are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney at (612) 349-9581 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743

Respectfully submitted,

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Jan 9 '04

By



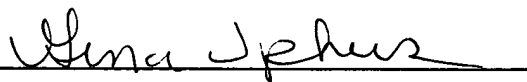
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 9 day of January, 2004.

Gina M. Uphus

Name



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